

A new *Hypomma* species from Stara Planina Mountains, Bulgaria (Araneae, Linyphiidae)

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A new *Hypomma* species from Stara Planina Mountains, Bulgaria (Araneae, Linyphiidae). - *Hypomma aemonicum* sp. n. (male/female) is described and illustrated (male/female) from Stara Planina Mountains in Bulgaria. This interesting new species has somatic characters which correspond to *Hypomma* but genital organs differ from all known species of the genus.

Keywords: Description - spider - Balkan Peninsula.

INTRODUCTION

The genus *Hypomma* is represented in Balkan Peninsula by three species. *Hypomma cornutum* (Blackwall, 1833) is known from Bulgaria and Croatia, *H. bituberculatum* (Wider, 1834) was reported from Serbia and Croatia, and *H. brevitibiale* (Wunderlich, 1980) was found only in Macedonia (Blagoev, 2002; Deltshev & Blagoev, 2001; Deltshev *et al.*, 2003; Wunderlich, 1980). The new species was collected in Stara Planina Mountains from high altitude rocky habitats on the Vezhen Peak (2170 m) and was reported under *Pelecopsis* sp. n. (Popov *et al.*, 2000; Deltshev & Blagoev, 2001). All measurements in the description are in mm.

DESCRIPTION

Hypomma aemonicum sp. n.

Figs 1-9

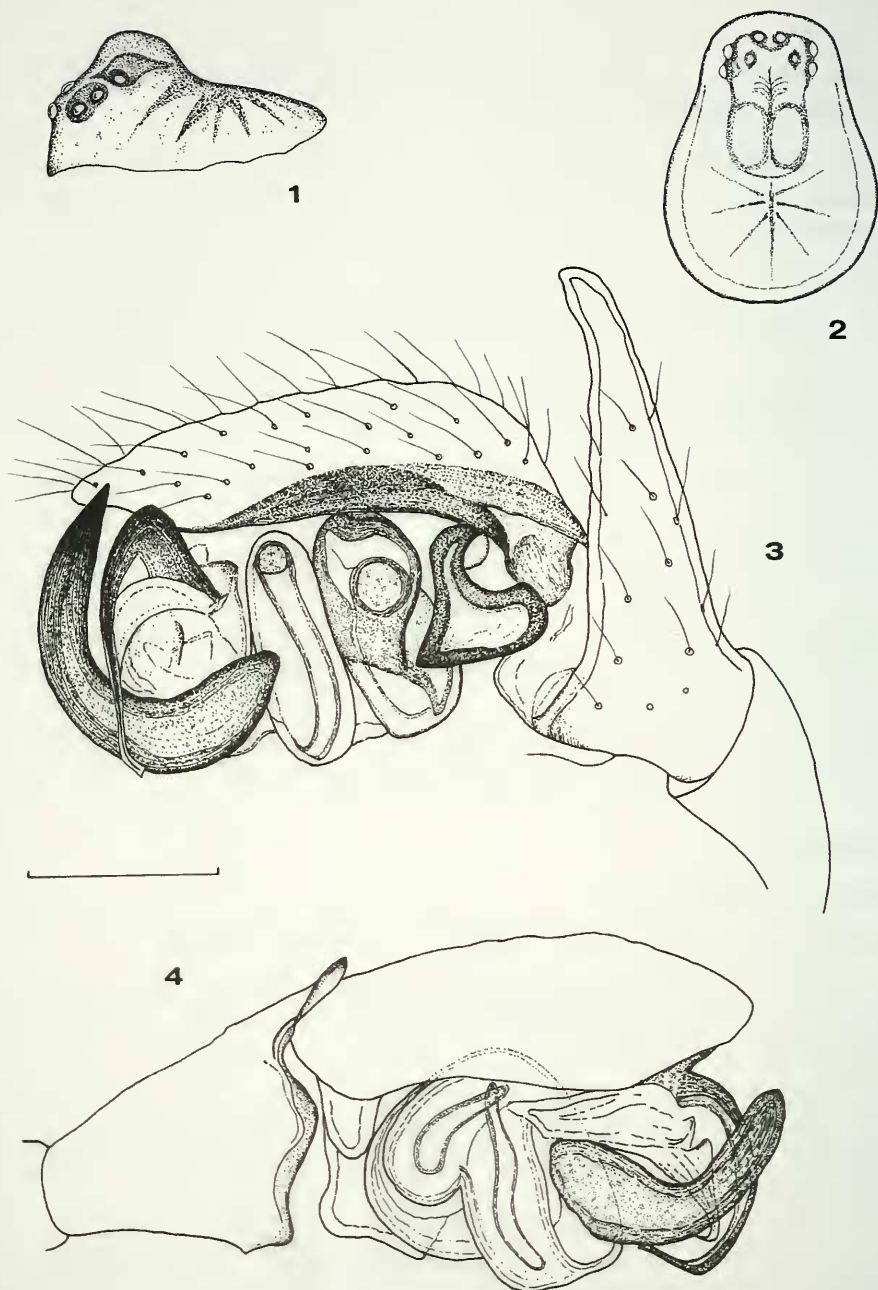
Pelecopsis sp. n.: Popov *et al.*, 2000 : 352, 355, 360, 382, 383, 392, 406, 409, 414; Deltshev & Blagoev, 2001: 119.

Material examined. Bulgaria, Stara Planina Mountains, Vezhen Peak (2170 m), under stones, male holotype, 11 male and 28 female paratypes, 2.08.1995 (leg. C. Deltshev); Stara Planina Mountains, Kamenitsa Peak (2000 m), 1 male and 2 female paratypes, 21.07.1997 (leg. C. Deltshev).

Depository: The holotype, 1 male and 2 female paratypes (Vezhen Peak) are deposited in the Muséum d'histoire naturelle, Genève; 1 male and 1 female paratypes (p. Vezhen) in Naturhistorisches Museum, Wien; 1 male and 1 female paratypes (Vezhen Peak) in the collection of K. Thaler (Innsbruck). The rest, 8 males and 25 females paratypes in the collections of the Institute of Zoology, Sofia.

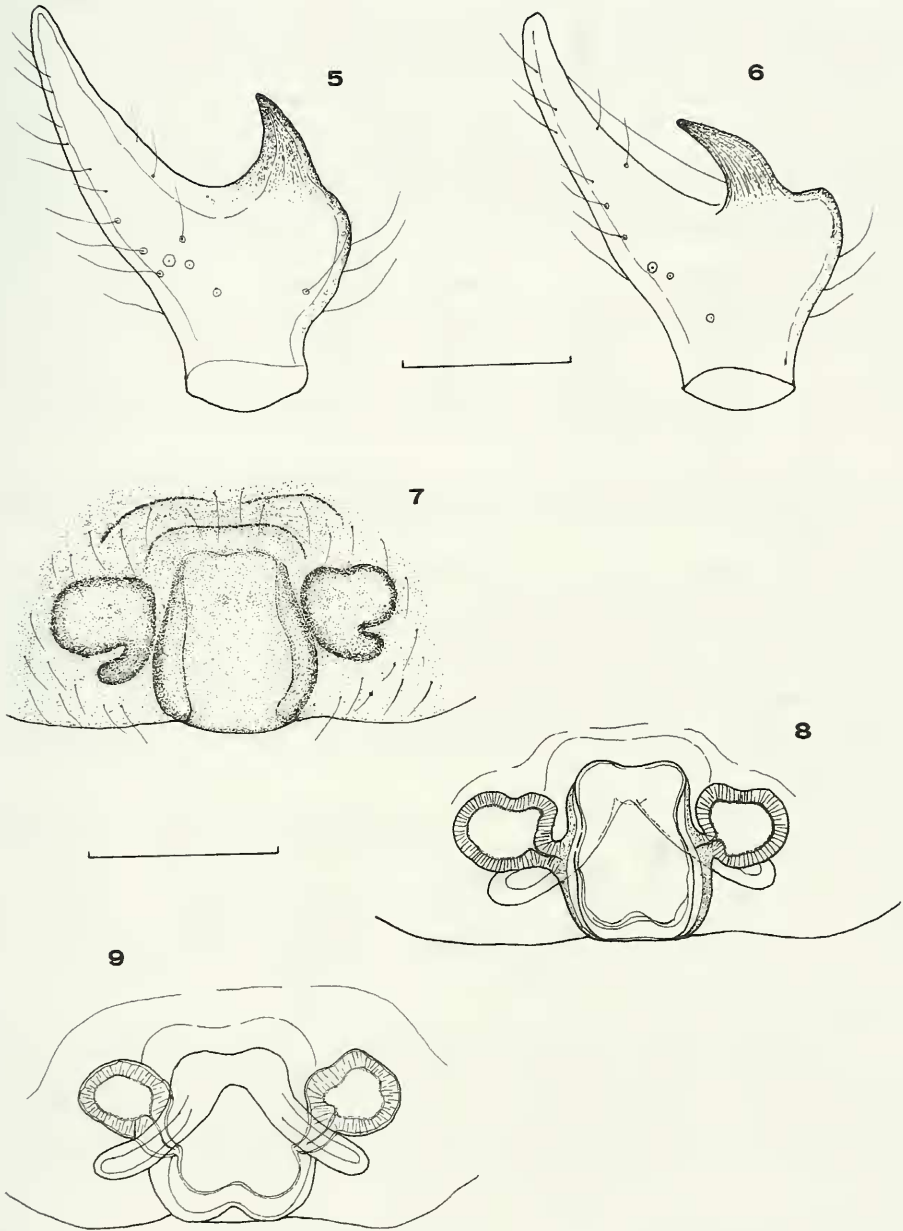
Etymology. Derived from Aemon - the Tracian name of the mountain.

Diagnosis. Somatic characters corresponding to those of the genus: TmI 0.65-0.75; TmIV present: tibial spines 1-1-1-1 (very short in males). Male palps as in Figs 2-5, and female genitalia as in Figs 6-7. The genital organs are different from those of all known species of the genus.



FIGS 1-4

Hyomma aemonicum sp. n., male: 1, carapace, lateral view; 2, carapace, dorsal view; 3, palp, retrolateral view; 4, palp, retroventral view. Scale line (Figs 3, 4) 0.2 mm (Figs 1, 2 not to scale).



FIGS 5-9

Hypomma aemonicum sp. n.: 5, male palpal tibia, dorsal view; 6, male palpal tibia, retrolateral view; 7, epigyne; 8, vulva, ventral view; 9, vulva, dorsal view. Scale lines 0.2 mm.

Description. MALE: Total length 2.45; cephalothorax, length 1.22, width 0.9; sternum length 0.72, width 0.54; abdomen, length 1.44. Head raised into a longitudinally, bifid lobe, a well-defined pit present behind posterior eyes (Figs 1, 2). Posterior eye row procurved, with eyes of equal size and nearly equidistant (Fig 2). Chelicerae yellow-brown, armed with 4 teeth on outer margin of cheliceral furrow and 3- 4 denticles on inner margin. Carapace, yellow to yellow-brown. Sternum, yellow to yellow-grey. Abdomen, grey to dark grey. Legs uniformly yellow; tibial spines 1-1-1-1, very short and absent in some specimens. TmI 0.65-0.75. TmIV present. Leg measurements:

Legs	Femur	Patella	Tibia	Metatarsus	Tarsus	Total
I	0.86	0.32	0.72	0.61	0.61	3.12
II	0.79	0.32	0.68	0.57	0.44	2.80
III	0.68	0.29	0.61	0.54	0.44	2.59
IV	0.90	0.36	0.90	0.83	0.61	3.56

Male palp: Figs 3, 4; palpal tibia: figs 5, 6, with stout retrolateral and straight prolateral apophysis. Suprategulum stout and elongated. Embolus long with truncated tip (Fig. 3).

FEMALE: Total length 2.88; cephalothorax, length 1.26, width 1.08; sternum length 0.79, width 0.64; abdomen, length 1.80. Anterior median eyes situated close to each other and ca. 75 % of their diameter apart from the laterals; posterior row with eyes of equal size and nearly equidistant. Chelicerae yellow-brown, armed with 4 teeth on outer margin of furrow and 3- 4 denticles on inner margin. Coloration of carapace, sternum, abdomen and legs as in male. Tibial spines of legs 1-1-1-1. TmI 0.65-0.75. TmIV present. Leg measurements:

Legs	Femur	Patella	Tibia	Metatarsus	Tarsus	Total
I	0.90	0.36	0.90	0.72	0.54	3.42
II	0.79	0.32	0.79	0.57	0.54	3.12
III	0.79	0.32	0.72	0.64	0.47	2.94
IV	1.08	0.36	1.08	0.97	0.61	4.10

Epigyne and vulva: Figs 7 – 9.

Affinities. Although *Hypomma aemonicum* sp. n. corresponds well with the genus *Hypomma* in somatic characters, it is difficult to find distinct resemblance to most of *Hypomma* species with respect to its genitalia. There are some similarities in tibial apophysis and elongated embolus with *Hypomma brevitibiale* (Wunderlich, 1980), known only from Macedonia.

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